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TROXELL LAW OFFICE PLLC			GOMA, TAWFIK A	
SUITE 1404 5205 LEESBURG PIKE		ART UNIT	PAPER NUMBER	
FALLS CHURCH, VA 22041			2653	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/617,807	HU, SHAO-CHUEH			
Office Action Summary	Examiner	Art Unit			
	Tawfik Goma	2653			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) ▼ This 3) Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 14 July 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

Claim 6 is objected to because of the following informalities: The language "both of them" render the claim unclear. Appropriate correction is required.

Claim 1 is objected to because of the following informalities. The claim recites, "said coded audio data," in line 7 of the claim. The claim does not define coded audio data prior to this recitation, and only recites, "coded audio data file." The claim should be corrected to read, "coded audio data" rather than "said coded audio data" in order to render the claim proper.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 10 and 19 are rejected to for the following reasons: Claim 10 recites that a "normal" reading and buffering procedure is first executed. The term "a normal reading and buffering procedures" is broad and indefinite language. The normal procedure is not defined previously in the claim. Further in regard to claims 10 and 19, the claim language is not grammatically proper. The claim recites, "number of blocks that distances between....", which should be corrected. The "buffer unit" is also defined as one unit that composes only block of information as understood from claims 1 and 11,

and as such a distance corresponding to the number of blocks within the unit would not be possible to measure. Appropriate clarification is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4-6, 8-9, 11-13, and 15-18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Ado (US Patent 6216201)

Regarding claim 1, Ado discloses a method for reading a coded audio data file in an optical storage medium and buffering the audio data file to a buffer memory (fig. 4© and col. 5 lines 55-64), said audio data file comprising a plurality of blocks which are stored sequentially in a plurality of storing units in said optical storage medium (fig. 2 and col. 2 lines 36-42)), each block divided into a subcode block and a corresponding main data block (fig. 4(C)), said subcode block comprising a plurality of coded subcodes (col. 2 lines 10-22), said subcodes comprising an address for each corresponding block (col. 2 lines 18-22), said main data block correspondingly comprising said coded audio data (col. 2 lines 31-35), the method comprising following steps: (a) designating a starting block where buffering starts, decoding via a subcode decoding procedure to obtain said subcodes in said subcode block, and searching for said starting block in said blocks in said optical storage medium (col. 2 lines 18-22 and col. 8 lines 43-46); (b) when said starting block is searched, triggering a main data

decoding procedure to correspondingly decode said starting block and said main data blocks in later blocks (col. 8 lines 47-51), then sequentially buffering decoded audio data respectively in a plurality of corresponding buffer units in said buffer memory after performing decoding (col. 8 lines 51-61); and (c) according to the timing when said main data decoding procedure is triggered, deciding the timing when said decoded subcodes should be buffered to said buffer memory (col. 8 lines 47-51 and col. 9 lines 5-8), in order that said subcodes and corresponding audio data which belong to the same block before decoding can be buffered to the same buffer unit after respectively decoded (fig. 6). Ado discloses that the sync block is used to search for the starting block (Trn0), and that the sync is located in the subcode of each block, which implies that the subcodes of every block are decoded during the searching process. Ado further discloses that the when the decoding of the main data is triggered, the page location in the buffer data is reset for both the subcode and the main data such that they are buffered to the same location. When the main data of the block Trn0 is finished, the decoding of the main data of the next block (Trn1) starts and the page numbers are incremented to 1 for the subcode and main data information (col. 9 lines 5-8) and buffering of the subcode information of the next block (Trn1) begins along with buffering of the main data of the next block (Trn1) (col. 9 lines 14-23) based on a timing signal BSYNC (fig. 6).

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Regarding claim 2, Ado further discloses wherein in the step (b), after said starting block is searched, a matching flag will be emitted to a subcode buffer controller and a main data buffer controller (X, Trn0, fig. 6), so as to respectively trigger the later

subcode decoding procedure of said subcode buffer controller and trigger said main data decoding procedure of said main data buffer controller (col. 8 lines 49-61 and 35, 37, fig. 6). Fig. 6 clearly shows the later buffering of the decoded starting subcode (Trn0) in unit 37.

Regarding claim 4, Ado inherently discloses an address control unit that emits the matching flag (X, Trn0, fig. 6) in order to perform the search process disclosed (col. 2 lines 18-22 and col. 8 lines 43-46).

Regarding claim 5, Ado further discloses wherein said buffer memory comprises said buffer unit to correspondingly store said decoded subcodes and audio data (col. 8 lines 47-61). Ado discloses that the buffer memory comprises a "page" that stores the main data and the corresponding subcode information for each block.

Regarding claim 6, Ado further discloses wherein each of said buffer unit comprises a subcode unit and a main data unit; said subcode unit and said main data unit both of them are used to respectively store the decoded subcodes and audio data (fig. 6).

Regarding claim 8, Ado further discloses wherein an optical storage device proceeds said method; said optical storage device connects to a computer host and receives a reading command from said computer host to proceed said method (19, fig. 1).

Regarding claim 9, Ado further discloses wherein the block which said reading command asks to read is defined as a target block (TRN0 and col. 8 lines 47-51), and

said address control unit can decide the starting block via a starting block deciding procedure (col. 2 lines 16-22).

Regarding claims 11, claim 11 is rejected for the same reasons as claims 1 and 4 above. Ado further discloses a subcode buffer controller (37, fig. 11) and a main data buffer controller (35, fig. 11).

Regarding claim 12, claim 12 is rejected for the same reasons as claim 1 above.

Regarding claim 13, claim 13 is rejected for the same reasons as claim 2 above.

Regarding claim 15, claim 15 is rejected for the same reasons as claim 5 above.

Regarding claim 16, claim 16 is rejected for the same reasons as claim 6 above.

Regarding claim 17, claim 15 is rejected for the same reasons as claim 8 above.

Regarding claim 18, claim 18 is rejected for the same reasons as claim 9 above.

Regarding claim 20, Ado further discloses a compact disc medium with digital audio format (fig. 4(C).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ado et al (US Patent 6216201) in view of Tran et al (US Patent 6198705). Regarding claims 3 and 14, Ado discloses everything claimed as applied above. Ado fails to

disclose wherein at least one block is distanced between where said main data buffer controller receives said matching flag and where said main data buffer controller triggers said main data decoding procedure; the number of said distanced blocks is decided by the timing of triggering said main data decoding procedure. In the same field of endeavor, Tran (US Patent 6198705) discloses where a physical target (col. 7 lines 35-41) and a virtual target is at least one block distance away from the desired data that is buffered to memory (fig. 3b and col. 5 lines 58-67 thru col. 6 lines 1-5). It would have been obvious to one of ordinary skill in the art to modify the buffering method disclosed by Ado to decode the main data at least one block after a matching flag is detected as taught by Tran. The rationale is as follows: One of ordinary skill in the art would have been motivated to begin buffering the main data at least one block distance from a matching flag detection in order to eliminate errors caused by reading at high speeds in the disc drive (see Tran col. 2 lines 55-64).

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ado et al (US Patent 6216201) in view of Packer (US Patent 6058453). Regarding claim 7, Ado discloses where the buffer memory is RAM memory (17, fig. 1, fig. 11). Ado fails to disclose where the buffer memory is DRAM memory. In the same field of endeavor, Packer discloses where buffer memory can be DRAM memory (col. 7, lines 48-51). It would have been obvious to one of ordinary skill in the art to modify the RAM buffer memory used by Ado with the DRAM memory taught by packer. The rationale is as follows: One of ordinary skill in the art would have been motivated to use DRAM memory rather than RAM memory in order increase memory capacity and reduce cost.

Claims 10 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ado et al (US Patent 6216201) in view of Tran et al (US Patent 6198705).

Regarding claims 10 and 19, claims 10 and 19 are rejected under 112 2nd paragraph as above. The examiner for clarification reinterprets claims 10 and 19, as follows. Ado discloses everything claimed as applied above (see 102 rejections of claims 9 and 18 above). Ado fails to disclose where the optical storage device first executes a normal reading and buffering procedures to check the number of blocks between the subcodes and their corresponding audio data stored in the buffer units as compared to their location on the optical disc, and then the optical storage device counts the number counts of blocks back from the target block every time when reading said optical storage medium to decide the starting block. In the same field of endeavor, Tran discloses the method claimed in claims 10 and 19 (col. 5 lines 29-47)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Packer (US Patent 6373794) discloses a method and apparatus for delayed block release in a compact disc. Yamawaki (US Patent 5604646) discloses a data error correction method for an optical disc buffering apparatus. Fang et al (US Patent 6539518) discloses an auto-disc controller capable of correcting various buffering errors.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tawfik Goma whose telephone number is (571) 272-4206. The examiner can normally be reached on 8:30 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tawfik Goma 1/18/2006 Thang V. Tran Primary Examiner 1/18/2006